

DOWNLINK SWITCHING MECHANISM FOR A SATELLITE**ABSTRACT OF THE DISCLOSURE**

A satellite is provided that routes signals on 0 to n channels to any one of M downlink beams. The satellite may include n first-stage switches each corresponding to one of the 0 to n channels, M multiplexing devices each to combine $n/2$ channels into one output channel, M second-stage switches to receive outputs from said M multiplexing devices and M downlink antenna ports coupled to the M second-stage switches.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20